

## 17.

Moths New to Trinidad, B.W.I.<sup>1</sup>

NORMAN LAMONT &amp; E. MCC. CALLAN.

Edited by William Beebe.

## INTRODUCTION.

Twenty-four years have passed since the publication of "A Catalogue of the Trinidad Lepidoptera Heterocera (Moths)" by William James Kaye, F.E.S., and Sir Norman Lamont, Bt. This appeared in 1927 as Number Three of the Memoirs of the Department of Agriculture, Trinidad and Tobago, Port-of-Spain, Trinidad. It contained the names and brief data concerning 1,016 species and sub-species of Trinidad moths.

In 1941 Sir Norman prepared a further list of 150 species, bringing the Trinidad moths up to date. This remained unpublished, and finally, just before his death, Sir Norman expressed his hearty willingness to have me edit and publish the additional list.

It seems appropriate to print the following paragraphs from the introduction written by the late Sir Norman for his list:

"The number of moths in the first catalogue was 1016, and now 150 are added, principally from my own captures and from records given in Seitz's monumental volumes. The combined total of 1166 species can, however, bear little real relation to the total number inhabiting Trinidad.

"It will be observed that several of the more interesting captures now recorded came from the Arima Valley and I think that there is little doubt that, if lights were systematically worked in the valleys of the Northern Range, an immense number of interesting captures would be made, of insects new to this imperfect list, and perhaps of some new to science.

"I wish to record my great obligation to three friends for much assistance, both in referencing names and in the determinations of difficult and obscure species, namely, to Mr. W. H. Tams, of the Natural History Museum, South Kensington; to Mr. L. B. Prout of the Zoological Museum, Tring; and to my old collaborator, Mr. W. J. Kaye."

Knockdow.  
1 Dec., 1941.

NORMAN LAMONT.

At about the same time that Sir Norman gave permission to publish his list, Dr. E. McC. Callan of the Imperial College of Tropical Agriculture gave me a list of 29 additional records of which he has kindly allowed me to make use. I have combined the two lists and now present a total of 179 moths new to the published fauna of the island. This provides an excellent foundation for any future, more comprehensive and intensive research upon the ecology of this group of insects.

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## FAMILY SYNTOMIDAE.

*Eriphoides tractipennis* Butler.

Butler, *J. Linn. Soc. Lond. Zool.* 12, p. 414; Draudt, in Seitz, 6, p. 132, pl. 26m.  
Range: Common from Honduras to Brazil.  
Mayaro, 6 Jan., 1921 (N. L.).

*Mesothem desesperata* Walker.

Walker, *List Lep. Ins. Brit. Mus.* 7, p. 1602; Draudt, in Seitz, 6, p. 66, pl. 12k.  
Range: From Panama through Guiana and Brazil as far as Paraguay and Argentina. "Flies in day time; on Compositae." Palmiste, 20 April, 1926 (N. L.).

*Macrocnene albatarsia* Hampson.

Hampson, *Cat. Lep. Phal.* 1, p. 325; Draudt, in Seitz, 6, p. 105, pl. 17e.  
Range: Amazon.  
Palmiste, 26 Feb., 1926; 2 Feb., 1936 (N. L.).

*Eucereon dorsipunctum* Hampson.

Hampson, *Ann. Mag. Nat. Hist.*, (7) 15, p. 430; Draudt, in Seitz, 6, p. 174.  
Range: Venezuela, Brazil, Paraguay.  
Palmiste, 14 Feb., 1934 (N. L.).

*Amycles affinis* Rothschild.

Rothschild, *Novit. Zool.*, XIX, p. 153.  
Range: Mexico to Venezuela.  
Recorded by Vesey-FitzGerald (*Proc. Entom. Soc. Lond.*, (A) 14, 1939, p. 105) as bearing a striking resemblance to the social wasp, *Parachartergus apicalis* (F.).

## FAMILY ARCTIIDAE.

## Sub-family Arctiinae.

*Automolis bonora* Schaus.

Schaus, *Proc. U. S. Nat. Mus.*, 29, p. 219; Seitz, 6, p. 367, pl. 50g.  
Range: French Guiana.  
Palmiste, 27 Feb., 1930 (N. L.).

## Sub-family Lithosiinae.

*Agylla fasciculata* Walker.

Walker, *List Lep. Ins. Brit. Mus.*, 2, p. 552; Draudt, in Seitz, 6, p. 282, pl. 36b.  
Range: Venezuela, Colombia.  
Maupertuis, 9 Feb., 1934 (N. L.).

*Agylla nivea* Walker.

Walker, *List Lep. Het. Brit. Mus.*, 7, p. 1778; Draudt, in Seitz, 6, p. 281, pl. 37c.  
Range: Mexico, Panama, Colombia, Ecuador.  
Verdant Vale, 10 April, 1919 (N. L.).

## FAMILY NOTODONTIDAE.

**Pentobesa xyloides** Walker.

Walker, Cat. Lep. Het. Brit. Mus., 35, 1886, p. 193; Draudt, in Seitz, 6, p. 913, pl. 144b. Range: Central America, Colombia. Palmiste, 7 March, 1934 (N. L.).

**Lysana plusiana** Schaus.

Schaus, Trans. Ent. Soc. Lond., 1901, p. 274; Draudt, in Seitz, 7, p. 920, pl. 144h. Range: Venezuela, Paraguay. Palmiste, 26 Dec., 1921 (N. L.).

**Strophocerus thermesia** Felder.

Felder, Reise Novara, 1:97, 1874, f. 9; Draudt, in Seitz, 7, p. 926. Range: Trinidad, French Guiana, Brazil. St. Augustine, 10 Nov., 1906 (E. M. Fountain); St. Patricks, Arima, 1 April, 1938 (N. L.).

**Tachuda discreta** Schaus.

Schaus, Proc. U. S. Nat. Mus., 29, 1905, p. 241; Draudt, in Seitz, 7, p. 928, pl. 145g. Range: Guiana, Brazil, Trinidad, West Indies.

**Marthula luteopunctata** Dognin.

Dognin, Ann. Soc. Ent. Belge, 48, p. 115 (1904). Draudt, in Seitz, 6, p. 992, pl. 144. Range: Peru and Bolivia. Palmiste, 1 March, 1948.

**Dasylophia guarana** Schaus.

Schaus, Proc. Zool. Soc. Lond., 1882, p. 331; Draudt, in Seitz, 7, p. 932, pl. 146b. Range: Mexico, Venezuela, Brazil, Peru. Palmiste, 1 Jan., 1928, and on 30 Jan., 1928, bred out a series of nine, from larvae taken on *Roble* (*Platymiscium*) (N. L.). Reported by Guffy (Board Agri. Trin. Cirl., 3, 1911, f. 12) as a pest of *Roble* and *Poui*.

**Malocampa punctata** Stoll.

Stoll in Cramer, Cramer, Pap. Exot., IV, t. 307, F. (1782); Draudt, in Seitz, 6, p. 981, pl. 151b.

Range: Mexico, Bolivia.

Palmiste, 20 Sept., 1947 (N. L.).

**Malocampa albolineata** Druce.

Druce, Biol. Cent. Amer., Het., I, p. 245 (1887) Draudt, in Seitz, 6, p. 983, pl. 151d. Range: Mexico to Brazil.

Palmiste, 24 March and 26 April, 1947. (N. L.).

**Farigia xenopithia** Druce.

Druce, Ann. Mag. Nat. Hist., (8) 8, 1911, p. 142; Draudt, in Seitz, 7, p. 937. Range: Trinidad.

**Hippia pronax** Dognin.

Dognin, Ann. Soc. Ent. Belg., 52, 1908, p. 165; Draudt, in Seitz, 6, p. 940, pl. 147b. Range: "French Guiana, Trinidad, Eastern Peru."

**Limiris lignitecta** Walker.

Walker, Cat. Lep. Het. Brit. Mus., 32,

1865, p. 469; Draudt, in Seitz, 7, p. 943, pl. 147d.

Palmiste, 15 Jan., 1936 (N. L.).

**Saluca pistacina** Schaus.

Schaus, Trans. Ent. Soc. Lond., 1901, p. 295. *Phastia maricolor* Kaye, Proc. Zool. Soc. Lond., 1922, p. 992, pl. I, f. 12 (according to Draudt, in Seitz, 7, p. 952).

Range: Costa Rica.

Palmiste, 20 Nov., 1935 (N. L.).

**Talmeca perplexa** Schaus.

Schaus, Proc. U. S. Nat. Mus., 29, 1905, p. 262; Draudt, in Seitz, 7, p. 988. Range: French Guiana, Trinidad.

**Chadisra peirreta** Dognin.

Dognin, Het. Nouv. Am. Sud., 7, 1914, p. 25; Draudt, in Seitz, 7, p. 992. Range: Trinidad.

**Talmenia arsilonchoides** Möschler.

Möschler, Verh., 2-6 Grs. 32, 1883, p. 346; Draudt, in Seitz, 7, p. 994. Range: Brazil, Peru.

Palmiste, 9 Dec., 1931 (N. L.).

**Hemiceras alba** Walker.

Walker, Cat. Lep. Het. Brit. Mus., 33, p. 851; Draudt, in Seitz, 7, p. 1043, pl. 156h. Range: Mexico.

Palmiste, 9 Dec., 1947.

**Rifargia occulata** Schaus.

Schaus, Proc. U. S. Nat. Mus., 29, 1905, p. 272; Draudt, in Seitz, 7, p. 1001. Range: French Guiana, Surinam.

St. Patricks, Arima, 21 April, 1938 (N. L.).

**Antaea juturna** Cramer.

Cramer, Pap. Exot., II, t. 129 E; Draudt, in Seitz, 6, p. 1049, pl. 158c. Range: Panama to Brazil.

Verdant Vale, 29 Nov., 1947 (N. L.).

## FAMILY NOCTUIDAE.

## Sub-family Noctuinae.

**Eulepidotis ezra** (Druce).

*Palindis ezra* Druce, Biol. Cent. Amer., Het. 2, 1898, p. 499, pl. 96, f. 1. Range: Mexico.

Palmiste, 5 March, 1930 (N. L.).

**Deinopa erecta** (Walker).

*Asthana erecta* Walker, Trans. Ent. Soc. Lond., (3) 1, 1864, p. 101. Range: British Guiana, Brazil.

St. Patricks, Arima, 20 April, 1930 (N. L.).

**Pseudophisma diatonica** (Möschler).

*Ophiusa diatonica* Möschler, Verhandl. der K. K. zool.-bot. Gesellschaft Wien, p. 433, pl. 9, fig. 28 (1880). Range: British Guiana and Surinam.

Verdant Vale, 5 Feb., 1938 (N. L.).

*Panula inconstans* Guenée.

Guenée, Hist. Nat. Ins. Lepid., VII (Noct. III), 59 (1852).

Range: Jamaica, St. Lucia, Trinidad.  
Palmiste, 14 Oct., 1947 (N. L.).

*Eucalyptra* n.sp.

Palmiste, 26 April, 1930 (N. L.).

*Herminiodes modesta* (Warren).

*Chadaca modesta* Warren, Trans. Ent. Soc. Lond., 1889, p. 233.

Range: Panama, British Guiana, Amazonas.

Palmiste, 7 Jan., 28 Feb., 2 March, 1932 (N. L.).

*Metalectra ecchlora* Hampson.

Hampson, Descr. Gen. Spec. Noctuinae, 1926, p. 281.

Range: Colombia.

"Trinidad," 1934 (Withycombe), Palmiste, 6 Dec., 1929 (N. L.).

*Renodes aequalis* (Walker).

*Platydia aequalis* Walker, List Lep. Ins. B. M., 34, 1865, p. 1121.

Range: St. Vincent, Colombia, Ecuador, Paraguay.

St. Patricks, Arima, 4 Jan., 1930 (N. L.).

*Athysania sinaldus* (Guenée).

*Gonodonta sinaldus* Guenée, Hist. Nat. Ins. Spec. Gen. Lepid., 6, 1852, p. 372.

Range: Mexico to south-east Brazil.  
Palmiste, 21 Jan., 27 April, 1930 (N. L.).

*Betusa chera* (Drury).

*Phalaena noctua chera* Drury, Ill. Nat. Hist. (Exotic Insects), II, p. 36, pl. 20, fig. 4, Index p. 1, (1773).

Range: Surinam.  
St. Joseph, March, 1922. Palmiste, 14 Oct., 1947 (N. L.).

*Antiblemma discomaculata* (Brabant).

*Caprodes discomaculata* Brabant, Le Naturaliste, 32, 1911, p. 187.

Palmiste, 27 March, 1934 (N. L.).

*Antiblemma addana* (Schaus).

*Caprodes addana* Schaus, Ann. Mag. Nat. Hist., (8), 8, 1911, p. 226.

Range: Chiriquí.  
Palmiste, 15 Nov., 1933 (N. L.).

*Tyrissa perstrigata* Schaus.

Schaus, Ann. Mag. Nat. Hist., (8) 8, 1911, p. 218.

Range: Costa Rica, Brazil.  
Palmiste, 10 Nov., 1933 (N. L.).

*Epidroma suffusa* (Walker).

*Thermesia suffusa* Walker, List Lep. Ins. B. M., 15, 1858, p. 1561.

Range: Cuba, Bahamas, West Indies, Brazil, Haiti (type).

St. Patricks, Arima, 27 Nov., 1933, 10 April, 1934 (N. L.).

*Paracoeris*, near *orebaena* Druce.

Palmiste, 21 Dec., 1929 (N. L.).

*Heteropygas*, near *nymbides* Hampson.

Hampson, Descr. Gen. Spec. Noctuinae, 1926, p. 300.

Specimens with Tams for verification as new species.

*Cryptochrostis hyphinoe* (Stoll).

*Phalaena noctua hyphinoe* Stoll, in Cramer, Pap. Exot., IV, pp. 130 and 248, pl. 357, figs. G and H (1781).

Range: Surinam.  
Verdant Vale, 1 April, 1938 (N. L.).

*Pseudophisma pritanis* (Cramer).

*Sphinx pritanis* Cramer, Uitl. Kapell. 2, 1777, p. 31, 115, f. d.

Range: Brazil, Peru, Paraguay.  
St. Patricks, Arima, 26 Jan., 1928 (N. L.).

*Lutogonia simplex* Schaus.

Schaus, Ann. Mag. Nat. Hist., (8) 11, 1913, p. 30.

Palmiste, 21 Dec., 1929 (N. L.).

*Caipe excitans* (Walker).

*Oraesia excitans* Walker, List Lep. Ins. B. M., 12, 1857, p. 942.

Range: Mexico, Santo Domingo, Jamaica.  
Palmiste, 4 May, 1934 (N. L.).

*Elousa hadenoides* (Guenée).

*Coxina hadenoides* Guenée, Hist. Nat. Ins. Spec. Gen. Lep., 6, 1852, p. 299.

Range: Mexico, Venezuela.  
Palmiste, 13 and 23 Nov., 1933 (N. L.).

## Sub-family Acromyctinae (Zenobiana).

*Cropia minthe* (Druce).

*Dyops minthe* Druce, Biol. Cent. Amer., Het. 1, 1889, p. 322, pl. 29, f. 28; Draudt, in Seitz, 7, p. 221, pl. 32c. *Decelea infusa* Kaye & Lamont (Mem. Dept. Agri. Trinidad and Tobago, 3, 1927, p. 56), nec Walker.

Range: Panama, Venezuela, Peru.  
In Nat. Coll. (F. W. Jackson); Palmiste, 18 Nov., 1927 (N. L.).

*Argyrosticta vau-aurea* (Hampson).

*Argyrostrotis vau-aurea* Hampson, Cat. Lep. Phal., 7, 1908, p. 522; Draudt, in Seitz, 7, p. 238, pl. 35b.

Range: Trinidad, British Guiana.

*Perigea alboiabes* Grote.

Grote, Can. Ent., 12, 1880, p. 216; Draudt, in Seitz, 7, p. 226, pl. 33b.

Range: Arizona to Colombia.  
Palmiste, 12 March, 1930 (N. L.).

*Perigea poliopastea* Hampson.

Hampson, Cat. Lep. Phal., 7, 1908, p. 308. Draudt, in Seitz, 7, p. 225, pl. 32i.

Range: Guiana, Bolivia, Trinidad.

***Chytonidia commixta* Schaus.**

Schaus, Proc. U. S. Nat. Mus., 46, 1914, p. 487; Draudt, in Seitz, 7, p. 244, pl. 35h.  
Range: French Guiana.  
Palmiste, 9 Feb., 1928 (N. L.).

***Chytonix griseorufa* Hampson.**

Hampson, Cat. Lep. Phal., 7, 1908, p. 606; Draudt, in Seitz, 7, p. 244, pl. 35h.  
Range: Brazil, Trinidad.

***Catabena esula* (Druce).**

*Xylina esula* Druce, Biol. Cent. Amer., Het. 1, 1889, p. 297, pl. 28, f. 1; Draudt, in Seitz, 7, p. 255, pl. 37c.

Range: Texas to Panama, Granada.  
Palmiste, 5 Jan., 1938 (N. L.).

***Gonodes liquida* (Möschler).**

*Ipimorpha liquida* Möschler, Abh. Senck. Ges., 14, 1886, p. 48, f. 17; Draudt, in Seitz, 7, p. 264, pl. 38d.

Range: Central America, Cuba, Brazil, Paraguay.

Palmiste, 15 Dec., 1933 (N. L.).

***Monodes grata* (Hübner).**

*Elaphria grata* Hübner, Zutr. Exot. Schmett., 1, 1818, p. 16, f. 71, 72; Draudt, in Seitz, 7, p. 273, pl. 39c.

Range: Florida, Texas, Mexico, Panama.  
Palmiste, 22 Feb., 1938 (N. L.).

***Monodes babaressa* Hampson.**

Hampson, Cat. Lep. Phal. 8, 1909, p. 461; Draudt, in Seitz, 7, p. 266, pl. 38e.  
Range: Trinidad, Paraguay.

***Monodes agrotina* (Guenée).**

*Celaena agrotina* Guenée, Hist. Nat. Ins. Spec. Gen. Lep., 5, 1852, p. 221; = *trientiplaga* Walker = *gattula* H. Sch. = *aduncula* Feld.; Draudt, in Seitz, 7, p. 268, pl. 38f.

Range: Cuba, Venezuela, Guiana, Brazil, Colombia, Jamaica, Paraguay.

Palmiste, 20 Nov., 1929; 30 Dec., 1931; 31 March, 1932 (N. L.).

***Monodes phaeopera* Hampson.**

Hampson, Cat. Lep. Phal., 8, 1909, p. 488; Draudt, in Seitz, 7, p. 270, pl. 38i.

Range: Venezuela, Colombia.  
Palmiste, 22 April, 1928, female; 5 Nov., 1929, male; 15 April, 1930 (N. L.).

***Monodes lithodia* (Schaus).**

*Eustrotia lithodia* Schaus, Trans. Ent. Soc. Amer., 30, 1904, p. 154; Draudt, in Seitz, 7, p. 274, pl. 39d.

Range: Brazil, Trinidad.

***Neomilichia caternaulti* (Guenée).**

*Perigea caternaulti* Guenée, Hist. Nat. Ins. Spec. Gen. Lep., 5, 1852, p. 233; Draudt, in Seitz, 7, p. 275, pl. 39e.

Range: British Guiana, Venezuela, Amazonas.

Palmiste, 7 Feb., 1930 (N. L.), "Trinidad" (Dyar).

***Closteromorpha reniplaga* Felder.**

Draudt, in Seitz, 7, p. 302, pl. 44c.  
Range: Brazil.

St. Patricks, Arima, 26 Jan., 1928 (N. L.).

***Micrathetis dasarada* (Druce).**

*Thalpochares dasarada* Druce, Biol. Cent. Amer., Het. 2, 1898, p. 498, pl. 95, f. 28; Draudt, in Seitz, 7, p. 263, pl. 42a.

Range: Mexico, Costa Rica, Brazil, Cuba, Jamaica.

"Trinidad" (Dyar) in Nat. Coll.

***Bagisara subusta* Hübner.**

*Atethmia subusta* Hübner, Samml. Exot. Schmett., II, p. 6, ff. 205-6.

Range: Southern United States to Argentina.

Collected by H. A. Ballou.

## Sub-family Hadeninae.

***Cirphis inconspicua* (Herrich-Schaeffer).**

*Leucania inconspicua* H.-Sch., Corresp. Blatt. Zool. Min. Ver. Regensb., 1868, p. 148; Draudt, in Seitz, 7, p. 167, pl. 24i.

Range: Mexico, Cuba, Jamaica.  
Palmiste, 14 Dec., 1931 (N. L.).

***Cirphis jaliscana* (Schaus).**

*Leucania jaliscana* Schaus, N. Y. Ent. Soc., 6, 1898, p. 114; Draudt, in Seitz, 7, p. 166, pl. 24c.

Range: Mexico.  
Palmiste, 25 Nov., 1929 (N. L.).

## Sub-family Agrotinae.

***Heliothis armigera* (Hübner).**

*Noctua armigera* Hübner, Samml. Eur. Schmett., Noct., 1803-8, f. 370.

Range: World-wide. Corn Earworm. A major pest of corn.

Palmiste, 20 Nov., 1929 (N. L.).

## Sub-family Erastrinae.

***Diastema tigris* Guenée.**

Guenée, Hist. Nat. Ins. Spec. Gen. Lep., 6, 1852, p. 317, pl. 15, f. 2; Draudt, in Seitz, 7, p. 384, pl. 52k.

Range: Mexico, Panama, Colombia, Venezuela, Granada.

Salybia, 20 Jan., 1928 (N. L.).

## Sub-family Euteliinae (Phlogophorinae).

***Eutelia ablatrix* (Guenée).**

*Penicillaria ablatrix* Guenée, Hist. Nat. Ins. Spec. Gen. Lep., 6, 1852, p. 303.

Range: Colombia, Jamaica, Haiti, St. Lucia.

Palmiste, 27 April, 1926 (N. L.).

***Eutelia abscondens* (Walker).**

*Penicillaria abscondens* Walker, List. Lep. Ins. B. M., 15, 1858, p. 1774.

Range: Costa Rica to Venezuela, Guiana and Brazil.

Golden Grove, 20 July, 1923.

## Sub-family Catolinae.

***Ophisma tropicae*** Guenée.

Guenée, Hist. Nat. Ins. Spec. Gen. Lep., 7, 1852, p. 238.

Range: Mexico, Venezuela, Cuba, St. Vincent, Paraguay.

Palmiste, 20 May, 1938 (N.L.).

***Nymbis garnoti*** (Guenée).

*Phurys garnoti* Guenée, Hist. Nat. Ins. Spec. Gen. Lep., 7, 1852, p. 306, pl. 23, f. 3.

Range: Grenada, Jamaica, Haiti, St. Lucia.

Palmiste, 15 Nov., 1931 (N.L.).

***Focillidia texana*** Hampson.

Hampson, Cat. Lep. Phal., 13, 1913, p. 148.

Range: Texas.

Palmiste, 30 Dec., 1935 (N.L.).

***Metria mascara*** (Schaus).

*Campometra mascara* Schaus, Ann. Mag. Nat. Hist., (7), 7, 1901, p. 42.

Range: Venezuela.

Palmiste, 4 April, 1934 (N.L.).

***Calyptris iter*** Guenée.

Guenée, Hist. Nat. Ins. Spec. Gen. Lep., 6, 1852, p. 324, pl. 12, f. 3.

Range: Brazil, British Guiana, Paraguay.

Palmiste, 3 Dec., 1933 (N.L.).

## Sub-family Phytometrinae (Plusiinae).

***Piulia oxygramma*** Geyer.

Geyer, in Hübner, Zutr. Exot. Schmett., 4, 1832, p. 37, f. 769-70.

Range: Mexico, Colombia, Venezuela, Brazil.

Palmiste, 11 Dec., 1933 (N.L.).

## Sub-family Hypeninae (Deltoids).

***Megatomis albivia*** Hampson, sp.n.

The following description is from the original MS by Hampson. Female: Head, thorax and abdomen dark reddish brown slightly mixed with whitish; antennae blackish, tinged with white toward base; palpi with extremity of second joint white; pectus and legs red-brown mixed with dark brown and ochreous; tarsi ringed black-brown and ochreous; ventral surface of abdomen dark brown irrorated with white. Forewing dark reddish brown, irrorated with ochreous to the post-medial line, especially on costal area, the terminal area dark brown tinged with gray; antemedial line very indistinct, dark brown defined on inner side by ochreous; a minute black point in upper part of middle of cell; yellowish white discoidal striga defined on inner side by dark brown; post medial line blackish defined on outer side by whitish, slightly except below the cell where it is defined by a narrow white band, angled outwards below costa, then inwardly oblique to lower angle of cell where it is slightly bent inwards, then oblique to inner margin; subterminal line indistinct rather diffused blackish with yellowish white striga from

costa, then somewhat dentate, oblique below vein 4; a rather wedge-shaped blackish subapical spot; a dark terminal line; cilia yellow at base, with dark brown line at middle, the tips checkered white and dark brown. Hind wing dark reddish brown tinged with gray, slightly irrorated with ochraceous white to the narrow, oblique, almost straight, white postmedial band, which is interrupted at submedian fold; a rather irregularly waved, blackish, subterminal line, slightly defined on inner side by whitish scales; a dark terminal line; cilia yellowish at base, with dark brown line at middle, the tips checkered with whitish and dark brown. Underside dark reddish brown, tinged with gray and irrorated with white except before and beyond the subterminal line; both wings with small, blackish discoidal spot, indistinct dark postmedial line defined on each side by white irroration and waved white subterminal line, on forewing obsolescent between veins 8 and 3, and defined on each side by slight blackish spots above and below vein 7; a black sub-apical spot. Expanse 26 mm. 1 female type.

Range: British Guiana.

Demerara (Rodway); St. Patricks, Arima, 24 Nov., 1929 (N.L.).

***Megatomis submarginata*** Schaus.

Schaus, Proc. U. S. Nat. Mus., 50, 1916, p. 340.

Range: French Guiana.

Palmiste, 1913 (N. L.).

***Lascoria phormisalis*** Walker.

Walker, List Lep. Ins. B. M., 19, 1859, p. 839.

Range: Brazil, Paraguay, Panama, Guatemala, Costa Rica, Colombia.

Palmiste, 22 Nov., 1933 (N. L.).

***Carteris lineata*** (Druce).

*Plynteria lineata* Druce, Biol. Cent. Amer., Het. 1, 1891, p. 489.

Range: Central America.

Palmiste, 9 and 27 Feb., 1932 (N. L.).

***Agonice hirtipalpis*** (Walker).

*Bleptina hirtipalpis* Walker, List Lep. Ins. B. M., 16, 1858, p. 242.

Range: Mexico, Panama, Venezuela.

Palmiste, 10 March, 1934 (N. L.).

***Oidemastis aeatusalis*** (Walker).

*Bleptina aeatusalis* Walker, List Lep. Ins. B. M., 19, 1859, p. 871.

Range: Southern Brazil.

Palmiste, 20 Nov., 1929 (N. L.).

***Argania pilosa*** Druce.

Druce, Biol. Cent. Amer., Het. 1, 1891, p. 480.

Range: Guatemala, Brazil.

St. Patricks, Arima, 20 April, 1930 (N. L.).

***Rejectaria*** sp.n.

Palmiste, 14 Feb., 1930 (N. L.).

***Ophiuchus mactatalis* (Walker).**

*Hypena mactatalis* Walker, List Lep. Ins. B. M., XVI, p. 45 (1858).

Range: Costa Rica to Venezuela and Peru. Caparo, Dec., 1904 (F. Birch).

***Tortricodes orneodalis* Guenée.**

Guenée, Hist. Nat. Ins. Spec. Gen. Lep., 8, 1852, p. 73.

Palmiste, 14 Dec., 1927 (N. L.).

**FAMILY LYMANTIDAE (LIPARIDAE).*****Phiditia minor* Schaus.**

Schaus, Proc. U. S. Nat. Mus., 65, 1924, p. 60; Seitz, 6, p. 556, pl. 75a.

Range: Trinidad, Paraguay.

***Eliora spectra* (Hübner).**

*Liparis spectra* Hübner Zutr. Exot. Schmett., 2, 1824; Schaus in Seitz, 6, p. 542, pl. 73e.

Range: Venezuela, Guiana, Trinidad.

**FAMILY SPHINGIDAE.****Sub-family Sphinginae.*****Coccytius lucifer* Rothschild.**

Rothschild, Novit. Zool., 9, Suppl. 1903, p. 59; = *morgani* Bois. = *rivularis* Butler; Draudt, in Seitz, 7, p. 846, pl. 90b.

Range: Mexico to the Amazons. Palmiste, 9 Dec., 1937 (N. L.).

**Sub-family Sesiinae.*****Isognathus caricae* (Linnaeus).**

*Sphinx caricae* Linn., Mus. Lud. Ulr., 1764, p. 350. *I. cactus* Chr.; Draudt, in Seitz, 7, p. 867, pl. 98a.

Range: Venezuela to Rio Janeiro.

Palmiste, Five bred from larvae on Allamanda, emerged 24 April, 1934 (N. L.). Strange that this large and handsome insect should have hitherto escaped observation.

***Grammodia calcus* Cramer.**

Cramer, Pap. Exot., 2, 1777, p. 42; Draudt, in Seitz, 7, p. 869, pl. 98d.

Range: Florida to Argentina, Cuba, Guiana, Amazons.

Palmiste, 23 Nov., 1929 (N. L.).

**FAMILY GEOMETRIDAE.****Sub-family Boarmiinae.*****Semiothisa limbularia* Hübner.**

Hübner, Zutr. Exot. Schmett., 1, 1818, p. 30, fig. 178 (recte 179) 180.

Range: Surinam.

St. Patricks, Arima, 4 March, 1938 (N. L.).

***Semiothisa confusaria* (Walker).**

*Macaria confusaria* Walker, List. Lep. Ins. B. M., 23, 1861, p. 916.

Range: Venezuela.

Palmiste, 1 Jan., 1932 (N. L.).

***Apicia concomitaria* Möschler.**

Möschler, Verh. Zool. Bot. Ges. Wien., 31, 1881, p. 398, pl. 17, f. 7.

Range: Venezuela to French Guiana and the Amazons.

Palmiste, 3 March, 1939 (N. L.).

***Apicia vibicaris* Cramer.**

Cramer, Pap. Exot., Vol. 1, p. 112, pl. 71d.

Range: Described from Surinam. Collected by H. A. Ballou.

***Pero stolidata* Guenée.**

Guenée, Hist. Nat. Ins. Spec. Gen. Lep., 9, 1858, p. 158.

Range: Guatemala to Venezuela, Peru, Brazil and Argentina.

St. Patricks, Arima, 27 Jan., 1938 (N. L.).

***Boarmia umbellularia* Hübner.**

Hübner, Zutr. Exot. Schmett., 3, 1825, p. 12, f. 429-430.

Range: Colombia, Venezuela and Brazil.

St. Patricks, Arima, 22 March, 1928 (N. L.).

***Ischnopteryx bryifera* Felder.**

Felder, Reise Novara, Zool. 2 (5), 1875, pl. 131, f. 28.

Range: Venezuela to French Guiana.

Palmiste, 30 March, 1939 (N. L.).

***Bagodares pallidicosta* Warren.**

Warren, Novit. Zool., 12, 1905, p. 358.

Range: Cuba, Venezuela, Ecuador, Peru and Brazil.

St. Patricks, Arima, 26 Jan., 1930 (N. L.).

***Nepheloieuca semiplaga* Warren.**

Warren, Novit. Zool., 1, 1894, p. 450.

Range: Venezuela, Brazil.

Palmiste, 20 Jan., 1926 (N. L.).

***Stenalcidia congruata* Walker.**

Walker, List Lep. Ins. B. M., 26, 1862, p. 1219. *S. farinosa*, Warren, Novit. Zool., 4, 1897, p. 471.

Range: Costa Rica, Venezuela.

St. Patricks, Arima, 24 Jan., 1930 (N. L.).

***Opisthozia nitidisquama* Warren.**

Warren, Novit. Zool., 4, 1897, p. 461.

Range: Guiana, Venezuela.

St. Ann's, Port-of-Spain, 11 Aug., 1931 (P. L. Guppy). "Taken at electric light. Alights with wings held upright, semi-closed. Walks rapidly."

***Chloropteryx* sp.**

St. Augustine, 1945, from larva feeding on inflorescence of *Cordia macrostachya*, R. G. Donald (det. H. W. Capps).

***Eupithecia* sp.**

St. Augustine, 1945, from larva feeding on inflorescences of *Cordia macrostachya*, R. G. Donald (det. H. W. Capps).

## Sub-family Larentiinae (Phlogophorinae).

*Amaurinia olivacea* Felder.

Felder, Reise Novara, Zool. 2 (5), 1875, pl. 128, f. 13.

Range: Costa Rica to Bolivia and Brazil. Palmiste, 13 Nov., 1929; 17 Feb., 1930 (N. L.).

*Eois pseudobada* Dognin.

Dognin, Het. Nouv. Amer. Sud, 14, 1918, p. 11.

Range: Central America, West Indies and Venezuela.

Palmiste, 3 Dec., 1933 (N. L.).

## Sub-family Hemitheinae.

*Racheospila superaddita* Prout.

Prout, Novit. Zool., 20, 1913, p. 416; Prout in Seitz, 8, p. 39, pl. 4e.

Range: Mexico to Bolivia, Trinidad and Amazons.

## Sub-family Oenochrominae.

*Achlora maronii* Thierry-Mieg.

Thierry-Mieg, Miscell. Ent., 22, 1915, p. 46; Prout, in Seitz, 8, p. 13, pl. 1g.

Range: Maroni River, Gorgona Island, Trinidad.

*Semaeopus oaxacana* Schaus.Schaus, Trans. Ent. Soc. Amer., 27, 1901, p. 189. *Semaeopus distans* Warren, Novit. Zool., 11, 1904, p. 36. Prout, in Seitz, 8, p. 84.

Range: Colombia, Venezuela, Mexico, Trinidad.

*Semaeopus caparonensis* Prout.

Prout, in Seitz, 8, 1936, p. 82, pl. 10d.

Range: Caparo, type male (S. M. Klages) and allotype (F. Birch) in the Tring Museum.

*Acratodes vitticostata* Warren.

Warren, Proc. U. S. Nat. Mus., 30, 1906, p. 460; Prout, in Seitz, 8, p. 131.

Range: "Trinidad, the Guianas, the Amazons, and into Peru; type from French Guiana."

*Acratodes adela* Dognin.

Dognin, Le Naturaliste, 12, 1890, p. 18; Prout, in Seitz, 8, p. 130, pl. 15d.

Range: "From Costa Rica to Bolivia in the west, and from Trinidad to Rio Janeiro in the east."

*Scelolophia desmogramma* Dyar.

Dyar, Ins. Ins. Mens., 1, 1913, p. 87; Prout, in Seitz, 8, p. 133.

Range: "Trinidad and Venezuela to Para and Pernambuco; type from French Guiana."

*Scelolophia uniformata* Warren.

Warren, Novit. Zool., 7, 1900, p. 151; Prout, in Seitz, 8, p. 133.

"Only known from the male, which is certainly very close to *sub-roseata*."

## FAMILY SATURNIIDAE.

*Automeris nausica* Cramer.

Cramer, Pap. Exot., 3, t. 249 D. E., 1779; Draudt, in Seitz, 7, p. 745-6, pl. 3 B. C.

Range: Guiana, Peru, Bolivia and Trinidad.

*Hylesia mystica* Dyar.

Dyar, Proc. U. S. Nat. Mus., 44, 1913, p. 131; Draudt, in Seitz, 7, p. 758.

Range: Guiana, Trinidad.

*Automeris liberia* Cramer.Cramer, Pap. Exot., 3, t., 268 F., 1780. Recorded by Urich (*Bull. Dept. Agric. Trinidad and Tobago*, 14, 1915, p. 202) as

a pest of cocoanut. Pap. Exot., III, t. 268 F. Range: Venezuela, Guiana, Colombia, Brazil, Peru.

## FAMILY BOMBYCIDAE.

*Anticia antica* Walker.Walker, List Lep. Ins. B. M., 5, 1855, p. 1174 = *eutila* Druce = *carya* Druce = *amylea* Druce; Schaus, in Seitz, 6, p. 691, pl. 89i.

Range: Costa Rica, Panama, Colombia, Venezuela, Peru.

St. Patricks, Arima, 4 March, 1938 (N. L.).

*Oiceclostera maya* Schaus.

Schaus, Proc. Zool. Soc. Lond., (1892), p. 326; Draudt, in Seitz, 6, p. 705, pl. 141g.

Range: Mexico.

Palmiste, 10 March, 1948 (N. L.).

## FAMILY CERATOCAMPIDAE.

*Citheronia penelope* Cramer.Cramer, Pap. Exot., 2, 1775, C. 45, A. *Eacles cybele* Druce = *ducalis* Walker; Draudt, in Seitz, 7, p. 802, pl. 133b.

Range: Trinidad to south Brazil.

St. Patricks, Arima, 3 April, 1938 (N. L.).

*Citheronia hamifera* Rothschild.

Rothschild, Novit. Zool., 14, 1907, p. 422; Draudt, in Seitz, 7, p. 800.

Range: British Guiana, Trinidad.

*Homoeopteryx prona* Jordan.Jordan, Novit. Zool., 31, 1924, p. 177. *Oxytenis malacena* Druce, Biol. Cent. Amer., Het. 1, 1886, p. 198; Draudt, in Seitz, 7, p. 818, pl. 122b.

Range: Trinidad, British Guiana.

Maupertuis, 22 Jan.; Palmiste, 29 March, 1932 (N. L.).

## FAMILY EPIPLEMIDAE.

*Nedusia* sp.n.

One in Nat. Hist. Museum from S. E. Peru. Palmiste, 29 May, 1938 (N. L.).

*Molybdophora concinnaria* Hübner

Hübner, Zutr. Exot. Schmett., f. 199; Gaede, in Seitz, 7, p. 1168, pl. 172g.

Range: Guatemala, British Guiana, Brazil.

St. Patricks, Arima, 24 Nov., 1929 (N. L.).

## FAMILY LASIOCAMPIDAE.

**Hydriás gibeá** Druce.

Druce, *Ann. Mag. Nat. Hist.*, (7) 3, 1899, p. 472. = *Euglyphis macasibia* Strd. = *Hydriás gibeá*; Draudt, in Seitz, 6, p. 594, pl. 83c.

Range: Venezuela, French Guiana, Peru, Brazil.

St. Patricks, Arima, 29 Nov., 1937 (N. L.).

**Titya proxima** Burmeister.

Burm. *Descr. Arg. V. P.*, 460, (1878). Draudt, in Seitz, 6, p. 584, pl. 80d. *argentina* Schaus.

Range: Mexico to Paraguay.

Palmiste, 25 Dec., 1947 (N. L.).

## FAMILY MEGLAOPYGIDAE.

**Trosia dimas** Cramer.

Cramer, *Pap. Exot.*, 1, 1779, p. 91. *T. tricolora* Fab.

Range: Trinidad (Walter Hopp, in Seitz, 6, p. 1081).

**Macara nigripes** Dyar.

Dyar, *Zool. N. Y.*, 1, 1910, p. 137; W. Hopp, in Seitz, 6, p. 1083.

**Aithorape albicostata** Hopp.

Hopp, *Mitt. Zool. Mus. Berl.*, 13, 1927, p. 256; W. Hopp, in Seitz, 6, p. 1075.

Range: Trinidad, Lower Amazons, Minas Geraes, Paraguay.

**Aidos amanda** Stoll.

Stoll, Stoll in Cramer, *Pap. Exot.*, Suppl., 1782; Hopp, in Seitz, 6, p. 1099, pl. 164a. Range: Mexico to Paraguay.

Palmiste, 6 July and 11 Nov., 1947 (N. L.).

## FAMILY LIMACODIDAE.

**Camila clarissa** Stoll.

Stoll, Stoll in Cramer, *Pap. Exot.*, Suppl., 1790, pl. 34, f. 3. *Miresa clarissa* Dyar, in Seitz, 6, p. 1121, pl. 165d.

Range: Mexico, Colombia, Venezuela, Brazil.

St. Patricks, Arima, 27 Jan., 1934 (N. L.).

**Sibine modesta** Cramer.

Cramer, *Uitl. Kapell.*, 2, 1779, p. 28, pl. 115, f.c. *?iolans* Dyar, in Seitz, 6, p. 1109. Range: Guatemala, Venezuela, Brazil.

In Nat. Hist. Museum from Trinidad (W. J. Kaye).

**Natada nigripuncta** Barnes & McDunnough.

Barnes & McDunnough, *N. Y. Ent. Soc.*, 18, 1910, p. 161. *Perola sardites* Druce, *Ann. Mag. Nat. Hist.*, (7), 5, 1900, p. 512; Dyar, in Seitz, 6, p. 1125.

Range: Guatemala.

Palmiste, 20 March, 1928 (N. L.).

**Sisyrosea elaeasa** (Dyar).

*Euprosterna elaeasa* Dyar, in Seitz, 6, p. 1122, pl. 165f. *E. avellana* Dognin.

Range: Honduras, Colombia, Guiana, Brazil.

In Nat. Coll., Caparo (F. Birch), (F. W. Urich). Larva on cocoanut (Urich).

**Sisyrosea repetita** (Druce).

*Perola repetita* Druce, *Ann. Mag. Nat. Hist.*, (7), 5, 1900, p. 512; Dyar, in Seitz, 6, p. 1127, pl. 166b.

Range: Costa Rica, Colombia, Venezuela, Guiana, Brazil.

St. Patricks, Arima, 5 Jan., 1936 (N. L.).

**Phobetron hipparchia** (Cramer).

*Euryda hipparchia* Cramer, *Pap. Exot.*, 1777, pl. 185d. *Phobetron coras* Stoll = *variolaris* H.-Sch. = *hipparchia*; Dyar, in Seitz, 6, p. 1132, pl. 166h.

Range: Guatemala, Panama, Brazil.

Palmiste, 1932 (N. L.).

**Semyra** sp. n.

Palmiste, 22 Dec., 1927 (N. L.).

## FAMILY TERAGRIDAE.

**Langsdorfia lunifera** (Dyar).

Dyar, in Seitz, 6, p. 1282.

St. Augustine, 1945, from larva boring in woody stems of *Cordia macrostachya*, R. G. Donald (det. Carl Heinrich).

Range: Guatemala to Ecuador and Guianas.

## FAMILY THRYIDIDAE.

**Draconia stenoptila** Warren.

Warren, *Novit. Zool.*, 15, p. 331; Gaede, in Seitz, 7, p. 1209, pl. 175h.

Range: Honduras, Trinidad.

## FAMILY PYRALIDAE.

Sub-family Epipaschiinae (Pococerinae).

**Pococera elegans** Schaus.

Schaus, *Ann. Mag. Nat. Hist.*, (8), 9, 1912, p. 658.

Range: Costa Rica.

Palmiste, 30 Dec., 1931 (N. L.).

**Jocara** sp.n.

St. Patricks, Arima, 26 Jan., 1930 (N. L.).

**Stericta abrupta** Zeller.

Zeller, *Hor. Soc. Ent. Ross.*, 16, p. 189, pl. 11, f. 16.

Range: Panama, Colombia.

Palmiste, 19 Nov., 1931 (N. L.).

**Macalla thrysialis** Walker.

Walker, *List Lep. Ins. B. M.*, 16, 1858, p. 156.

Range: Bahamas, Honduras.

Trinidad, 1908 (W. J. Kaye); Palmiste, 3 Jan., 1928 (N. L.).

**Macalla ochrotalis** Hampson.

Hampson, *Ann. Mag. Nat. Hist.*, (7), 17, 1906, p. 139.

Range: Colombia, Venezuela.

Palmiste, 30 Dec., 1935 (N. L.).

Sub-family Chrysauginae (Siginae).

**Hyalosticta** sp.n.

St. Patricks, Arima, 20 April, 1930 (N. L.).

Sub-family Phycitinae.

**Elasmopalpus rubedineellus** (Zeller).

Zeller, *Isis von Oken*, p. 885, 1848.

Range: Central America.

St. Augustine, 16 March, 1940, from pods of pigeon pea (*Cajanus indicus*), M. D. French-Mullen (det. Carl Heinrich). Pigeon pea moth borer. A major pest.

**Epehestia figurilella** Gregson.

Gregson, *The Entomologist*, 5, p. 385, 1871.

Range: Cosmopolitan.

Recorded by Knapp (*Bull. Imp. Inst. Lond.*, 19, 1921, p. 191) as a pest of stored cacao beans.

**Mesclina** sp.

St. Augustine, 6 April, 1948, from larva feeding on dahlia flowers, E. McC. Callan (det. Carl Heinrich).

**Fundella pellucens** (Zeller).

Zeller, *Isis von Oken*, 41, p. 866, 1841.

Range: Florida, West Indies, South America.

A pest of beans and cowpeas. Collected by H. A. Ballou.

Sub-family Crambinae.

**Diatraea impersonatella** (Walker).

*Crambus impersonatellus* Walker, List Lep. Ins. B. M., 27, 1863, p. 163.

"In considerable number in some Trinidad cane-fields; and a minor pest of cane in S. America. Not present in Barbados" (R. W. E. Tucker, *Trop. Agri.*, 17, No. 7, p. 133).

**Diatraea minimifacta** Dyar.

Dyar, *Ent. News*, 22, 1911, p. 202.

Range: Venezuela, French Guiana.

Maraval, July, 1891 (Cited by Box, *Bull. Ent. Res.*, 22, 1931, p. 21).

**Diatraea bellifactella** Dyar.

Dyar, *Ent. News*, 22, 1911, p. 205.

Range: Grenada, Bolivia, Peru, Brazil.

Port-of-Spain (F. Birch, cited by Box, *Bull. Ent. Res.*, 22, 1931).

**Diatraea albicrinella** Box.

Box, *Bull. Ent. Res.*, 22, 1931, p. 34, pl. 5, f. 15.

Range: Ecuador, Peru, British Guiana, Brazil.

Nariva Swamp, 13 Oct., 1934 (H. E. Box), Caroni Swamp, and other localities, larvae in *Panicum grande* and *Typha angustifolia* (see Box, *Trop. Agri.*, 12, 1935, p. 221).

Sub-family Galleriinae.

**Myelobia** sp.

St. Joseph, 27 March, 1940, from larva boring in bamboo (*Bambusa vulgaris*), E. McC. Callan (det. Carl Heinrich).

**Galleria mellonella** (Linnaeus).

**Tinea mellonella** Linn., Syst. Nat., 537.

Range: Cosmopolitan.

Wax Moth. St. Augustine, 15 Jan., 1943, from larva boring in comb of honey bee, A. M. Adamson (det. Carl Heinrich).

**Achroia grisella** (Fabricius).

**Phalaena grisella** Fab., Ent. Syst., III, 2, 289.

Range: Cosmopolitan.

Lesser Wax Moth. St. Augustine, 15 Jan., 1943, from larva boring in comb of honey bee, A. M. Adamson (det. Carl Heinrich).

**Coryca cephalonica** Stainton.

**Melissoblaptes cephalonica** Stainton, *Ent. Mo. Mag.*, 2, p. 172.

Range: Widely distributed.

Rice Moth. Intercepted by Bureau of Entomology and Plant Quarantine, U. S. Dept. Agri.

Sub-family Pyralinae.

**Piletosoma novalis** Walker.

Walker, List Lep. Ins. B. M., 34, 1865, p. 1399.

Range: Guiana, Peru, Brazil.

Sub-family Agroterinae (Pyraustinae).

**Pliocrociis flagellalis** Dognin.

Dognin, *Ann. Soc. Ent. Belge*, 53, 1909, p. 92.

Range: French Guiana.

Palmiste, 23 March (N. L.).

**Pycnarmon striginalis** (Guérin).

**Spilomela striginalis** Guérin, *Hist. Nat. Ins. Spec. Gen. Lep.*, 8, 1854, p. 281.

Range: Panama, Guiana, Peru, Brazil.

Palmiste, 17 Nov., 1935 (N. L.).

**Phostria insolitella** Möschler.

Möschler, *Abh. Senck. Ges.*, 16, p. 301.

Range: Guatemala, Santo Domingo, Colombia, Venezuela, Guiana, Peru.

Palmiste, 21 Nov. and 19 Dec., 1927 (N. L.).

**Phostria varialis** Walker.

Walker, *Trans. Ent. Soc. Lond.*, (3), 1, p. 122.

Range: British Guiana, Brazil, Ecuador, Peru.

St. Patricks, Arima, 31 Dec., 1927 (N. L.).

**Sylapta proregata** Hampson.

Hampson, *Ann. Mag. Nat. Hist.*, (8), 10, 1912, p. 14.

Range: Brazil, British Guiana.

Palmiste, 27 Nov., 1927 (N. L.).

**Margaronia albicincta** (Hampson).

**Glyphodes albicincta** Hampson, *Proc. Zool. Soc. Lond.*, 1898, p. 737.

Range: Panama, Colombia, Paraguay, Brazil.

Palmiste, 10 March, 1934 (N. L.).

**Margaronia flegia** (Cramer).

*Phalaena flegia* Cramer, *Uitl. Kapell.*, 2, p. 66, pl. 140, f. d.

Range: Mexico to Brazil, Santo Domingo, Jamaica.

Palmiste, 3 Dec., 1933; 11 March, 1934 (N. L.).

**Dichogama redtenbachii** Lederer.

Lederer, *Wien. Ent. Mon.*, 7, p. 396, pl. 13, f. 10.

Range: Cuba, St. Lucia, Bolivia, Brazil, Paraguay.

Palmiste, 15 Nov., 1935 (N. L.).

## FAMILY PYRAUSTIDAE.

**Pachyzancia periusalis** (Walker).

*Botys periusalis* Walker, *List Lep. Ins. B. M.*, XVII, p. 623.

Range: U. S. to Brazil.

Tobacco Leaf-folder. St. Augustine, 8 Dec., 1941, from larva webbing together and feeding on tomato leaves, E. McC. Callan (det. Carl Heinrich).

**Pachyzancia phaeopteralis** (Guenée).

*Botys phaeopteralis* Guenée, Deltoids and Pyralids, 1854, 349.

Range: Cosmopolitan in tropics.

Grassworm. St. Augustine, 8 April, 1946, from larva feeding on Java grass (*Polytrias praemorsa*) and Savanna grass (*Axonopus compressus*), E. McC. Callan (det. Carl Heinrich).

**Lamprosema indicata** (Fabricius).

*Phalaena indicata* Fab., *Syst. Ent.*, 3, (2), p. 218.

Range: Cosmopolitan.

Bean Leaf-webber. The larva feeds on the leaves of beans, webbing them together. Collected by H. A. Ballou.

**Lamprosema olivia** (Butler).

*Botys olivia* Butler, *Proc. Zool. Soc. Lond.*, (1878).

Range: Cuba, Jamaica, Guatemala, Venezuela, Brazil.

Palmiste, 11 Dec., 1937 (N. L.).

**Gonocausta zephyrallis** Lederer.

Lederer, *Wien. Ent. Mon.*, p. 436, t. 17, fig. 5, (1863).

Range: Amboina (type locality), Mexico, Guatemala, Costa Rica, Panama, Colombia, French Guiana.

## FAMILY PTEROPHORIDAE.

**Platyptilia** sp.

Brasso, 31 Oct., 1941, from larva eating flush leaves of cacao (*Theobroma cacao*), E. McC. Callan (det. Carl Heinrich).

## FAMILY CARPOSONIDAE.

**Carposina bullata** Meyrick.

Meyrick, *Exot. Microlep.*, I, p. 98 (1913). Range: British Guiana.

The larva feeds within the seed capsule of the weed, *Clidemia hirta* (Parry-Jones, E. & Squire, F. The biological control of *Clidemia hirta*. Dissertation, I. C. T. A., 1931).

## FAMILY PHALONIIDAE.

**Phalonia** sp.

St. Augustine, 1945, from larva feeding on inflorescences of *Cordia macrostachya*. R. G. Donald (det. Carl Heinrich).

## FAMILY OLETHREUTIDAE.

**Gymnandrosoma** sp.

Rio Claro, 23 Feb., 1944, from larva boring in cacao pod (*Throbroma cacao*), A. F. Posnette (det. Carl Heinrich).

**Laspeyresia** sp., near *rhodaspis* Meyrick.

Recorded by Pickles (*Rept. of Entomologist* for 1938, Dept. Agric. Trin. and Tob.) as causing injury to grapefruit and oranges.

## FAMILY PLUTELLIDAE.

**Plutella maculipennis** (Curtis).

Curtis, *Brit. Ent.*, pl. 420 (1832). Range: Cosmopolitan.

Diamond-back moth. A notorious and widely distributed pest of cabbages, cauliflower and related plants. San Juan, March, 1945, from larva feeding on cabbage leaves, E. McC. Callan (det. Carl Heinrich).

## FAMILY COSMOPTERYGIDAE.

**Mompha trithalamia** Meyrick.

Meyrick, *Exot. Microlep.*, 2, p. 578 (1922). Range: Amazon region of Brazil and Peru.

The larva feeds within the seed capsule of the weed, *Clidemia hirta* (Parry-Jones, E. & Squire, F. The biological control of *Clidemia hirta*. Dissertation I. C. T. A., 1931).

## FAMILY GELECHIIDAE.

**Pectinophora gossypiella** (Saunders).

Saunders, *Trans. Ent. Soc. Lond.*, (1), 3, p. 284 (1843).

Range: Cotton-growing areas.

The pink bollworm of cotton was accidentally introduced to Trinidad some 20 years ago.

**Gnorimoschema gudmannella** Walsingham.

Walsingham, *Proc. Zool. Soc. Lond.*, p. 77 (1897).

Range: West Indies.

Pepper flower-bud moth. San Juan, April, 1948, from larva boring in flower-buds of peppers (*Capsicum* spp.), E. McC. Callan.

**Sitotroga cerealella** (Olivier).

Olivier, *Encycl. Meth. Ent.*, 4, p. 121, pl. 46, fig. 8 (1789).

Range: World wide.

St. Augustine, 4 Aug., 1938, from seeds of sorghum (*Sorghum vulgare*), E. McC. Callan. The Angoumois grain moth is a serious pest of many stored grains in Trinidad.

***Epithectis sphecophila* Meyrick.**

Meyrick, Exot. Microlep., 4, p. 624 (1936).

Range: Trinidad.

Recorded by Vesey-Fitzgerald (*Trans. Roy. Ent. Soc. Lond.*, 87, 1938, p. 182-3) as a scavenger in nests of *Polistes*.

## FAMILY STENOMIDAE.

***Cerconota anonella* (Sepp).**

Sepp, Surinam Vlinders, 3, p. 297, pl. 137 (1830).

Range: Central and South America and West Indies.

A pest of Soursop (see R. G. Fennah, *Trop. Agriculture*, 14, 1937, p. 175).

***Stenoma nitens* Butler.**

Butler, *Cistula Entomol.*, 12, p. 188 (1882).

Range: British Guiana, Amazonia.

Palmiste, 22 Nov., 1937 (N. L.).

## FAMILY GRACILARIIDAE.

***Marmara* sp.**

Cacao pod miner. The larva mines in the epidermis of cacao pods, causing conspicuous serpentine mines.

## FAMILY TINEIDAE.

***Telphusa latebricola* Meyrick.**

Meyrick, Exot. Microlep., 4, p. 349 (1932).

Range: Virgin Islands.

Recorded by Vesey-Fitzgerald (*Trans. Roy. Ent. Soc. Lond.*, 87, 1938, p. 182) as an important enemy of *Polistes canadensis* (L.), the caterpillars feeding as scavengers but also devouring living wasp pupae.

***Leucoptera coffeeella* Guérin-Meneville.**

Guérin-Meneville & Perrottet, Mem. Ins. Champ. Rav. Cafiers Ant., pp. 5-32, pl. 1, 2 (1842).

Range: Central and South America, Ceylon, West Indies.

The coffee leaf-miner is not uncommon in Trinidad, though damage to the crop is negligible.

***Holophractis heptachaica* Meyrick.**

Meyrick, Exot. Microlep., 2, p. 326 (1920).

Range: Brazil: Obidos, Parintins.

Recorded by Meyrick (Exot. Microlep., 4, pt. 1, 1930) as bred from larvae feeding externally on seeds of *Clidemia hirta*.

***Dictomeris granivora* Meyrick.**

Meyrick, Exot. Microlep., 4, p. 201 (1932).

Range: Peru, Brazil.

Described from specimen reared from larva in young maize.

***Tineola bisselliella* Hummel.**

Hummel, Ess. Ent. 13, (1829).

Range: Europe and North America.

Clothes moth.

***Tinea pellionella* (Linnaeus).**

Linnaeus, Syst. Nat., p. 536 (1758).

Range: Universal.

Case-bearing clothes moth.

## FAMILY ACROLOPHIDAE.

***Acrolophus ductifera* Meyrick.**

Meyrick, Exot. Microlep., 3, p. 329 (1927).

Range: Antigua.

Collected by H. A. Ballou.